FILE COPY FOREST INSECT LABORATORY, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA.

Speeches M.S. 5/1933

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FOREST INSECT CONTROL PROGRAM
E.C.W. CAMPS, REGION 5, 1933

Any large-scale eradication projects in this region can be undertaken to advantage only during the fall months, after the period of bark beetle flight and the fire hazard have subsided. Entomological considerations and weather conditions will therefore largely determine the season for the major jobs where the bark-burning method is used. A limited amount of summer control work may be undertaken in areas where the infestation is localized and where conditions are favorable for the use of solar heat as a method of destroying the broods.

Approximately forty-seven areas have been proposed by the Forest Supervisors where control work appears to be warranted and where this work can be carried on by E.C.W. camp labor. This does not include the National Park and State areas, which will probably involve about eight or ten more proposed projects. The essential considerations in deciding upon any of these projects are that the seasonal status of the infestation warrants such action, that the job is feasible from a practical and administrative standpoint, and that the work can be planned so that a fairly complete infestation unit will be cleaned up before the camp is closed. A survey or reconnaissance should be made of all proposed areas as a basis for the necessary plans and estimates, preliminary to the actual control jobs.

The effects of the winter kill may have eliminated the necessity for control this season in some of the proposed areas, and a check-up on the 1933 infestation will be necessary before recommendations are warranted over a wide area in northern California.

If worthwhile benefits are to be secured from any of these proposed projects, two phases of this program should be adequately provided for. These are:

1. Preliminary surveys of the infested areas to define satisfactory units, estimate the volume of work that will be necessary, and train up enough of the camp personnel to carry out the fall control campaign effectively;

2. Conduct of the fall control campaign, as well as any summer jobs that are undertaken, according to a definite working plan for each unit, with provision for sufficient man power to clean up the infested area during the available working period.

1933
Miller

CONTROL SURVEYS

Purpose

1. To determine the zones where increasing or epidemic infestations exist during the 1933 summer season;

2. To define satisfactory units for control work and to estimate the volume of work necessary for a satisfactory control job in each unit;

3. To locate and mark infested trees for treatment in those camp areas where summer control work is considered feasible;

4. To develop working plans for those areas where control work is recommended;

5. To train spotters and other skilled workers who will be needed for the conduct of the control work;

6. To extend the area included in the California Regional Survey of forest insect damage, establish permanent sample plots that will be of value to future surveys in the region, and secure basic data as to losses that are being sustained in the region.

Organization

Two insect control supervisors will be selected to plan and direct the surveys and subsequent control jobs. One will cover the forests in the northern California region, the other will be assigned to the central Sierra and southern California region.

An experienced insect control foreman or spotter foreman will be assigned for the season to each camp where the more important projects are now contemplated. Two or three men will be selected from the enlisted personnel who can work as assistants and make up a survey crew for sample plot cruises and for spotting on the summer and fall control jobs.

Insect Control Supervisors

These men will be directly responsible to the Regional Forester, and will work under plans approved by the Bureau of Entomology. Their duties within the general area to which they are assigned will be:

1. To select the areas for sample cruises and assist in planning the program for the summer control surveys;

2. To inspect the work of the insect control foreman and spotters, check the efficiency of the crews, and see that the surveys in all areas are conducted as nearly uniformly as possible according to methods and accuracy;

3. To make a reconnaissance of areas outside of those selected for sample surveys for the purpose of considering in the fall control program any serious outbreaks that may have developed recently;

4. To analyze conditions shown by the results of the summer survey work, recommend areas where control operations should be conducted, and approve estimates and plans for control jobs;

5. To inspect control jobs that are under way to see that the work is being carried out efficiently by effective methods.

Insect Control Foreman and Spotter Foreman

The men appointed in these grades may be used interchangeably for summer surveys and for spotting and supervision of the actual control work. Experience and qualifications will largely determine the grade to which individual candidates are assigned, and the same duties will apply to each. They will be directly responsible to the camp foreman, but will work under the general supervision of the Control Supervisor. Their duties will be to

1. conduct surveys with the assistance of several enlisted men during the summer period within the area covered by the camp to which they are assigned;

2. prepare the necessary field maps as the work progresses and work up other data essential to the record of the surveys as a basis for control recommendations;

3. conduct the spotting and supervise any control work that is undertaken by the camp during the summer or fall period.

CONTROL WORK

It is expected that the amount and character of the control work that is undertaken will depend upon conditions shown by these surveys. It will be inadvisable to undertake any projects unless it can be shown that the time schedule and available man power will insure effective clean-up of an infestation unit during the life of the camp. In case a job is only partially finished the insects may soon reinfest the area worked, and the benefits secured will be largely such as can be attributed to snag disposal. If it is found that E.C.W. labor that will be available before the camp closes in the fall can accomplish only the partial working of an infestation unit, provision should be made for labor from other sources to round out the job during the following winter or spring period.

J. M. MILLER,
Senior Entomologist.

Berkeley, Calif.,
May 20, 1933.

LIST OF CAMPS FOR WHICH CONTROL PROJECTS HAVE BEEN PROPOSED

National Forests

Name of Camp	Designation	Nature of Project
Cantrall Mill	F---1 Modoc	Western pine beetle in commercial stands
Crane Creek Mill	F---2 "	do
Hackamore	F---3 "	do
Long-Bell	F---4 "	do
White Horse	F---5 "	do
Slagger Creek	F--10 Shasta	Mountain pine beetle, Medicine Lake Area
Big Springs	F--17 "	Western pine beetle in commercial stands
----------	F--48 Lassen	Jeffrey and western pine beetles in commercial timber
Hall's Flat	F--49 "	do
Crocker	F--57 Plumas	do
Boulder Creek	F--60 "	do
Meadow View	F--61 "	do
Sattley	F--67 Tahoe	do
Truckee	----- "	do
Riverton	----- Eldorado	Western pine beetle in ponderosa pine; mountain pine beetle
Bear River	----- "	do
Quintelle	----- "	do
Buck Meadow	F--82 Stanisl.	Western pine beetle in ponderosa pine; mountain pine beetle in sugar pine
Mokelumne	F--88 "	do
Corral Cr.(Jawbone)	F--83 "	do
Carl Inn	F--81 "	do
Camp 17(Pilot Peak)	F--86 "	Mountain pine beetle in sugar pine

National Forests, concluded

Name of Camp	Designation	Nature of Project
Sugar Pine	F--91 Sierra	Western pine beetle, Bass Lake area
Cold Springs	----- "	do Chowchilla Mt.
Oak Flat	F--97 "	Maintenance, Fence Meadow Project
Sweetwater	----- "	Western pine beetle
Hogue Ranch	F-94 "	Maintenance, Sugar Pine Project
Roush Mill	----- "	do
Millwood	F-109 Sequoia	Western pine beetle, recreational areas
Quaking Asp	F-106 "	do
Mammoth	----- Inyo	Jeffrey pine beetle in Jeffrey pine
Markleeville	F--78 Mono	do
Tollhouse	F--79 "	do
Buckeye Canyon	F--79a "	do
Chuchupate	F-115 S.Barbara	Flathead in Jeffrey pine
Figueroa	F-117 "	Western pine beetle,yel.& Coulter pines
Radford	F-149 S.B'dno.	do
Idyllwild	F-145 "	do
Bear Valley	F-151 "	do
Lake Arrowhead	F-155 "	do
Miller Canyon	F-154 "	do
Pine Valley	----- Cleveland	do
San Diego River	----- "	Flathead and Ips in Jeffrey pine
Temecula Peak	----- "	do
Puerta La Cruz	----- "	do
Minersville	F--26 Trinity	Western pine beetle in ponderosa pine
Peanut	F--28 "	do

National Parks and State

Name of Camp	Designation	Nature of Project
Wawona #1	Yosemite	Maintenance work on areas
Wawona #2	"	in sugar pine-ponderosa pine type
Yosemite #3	"	covered by 1933 control
General Grant	General Grant	Maintenance in sugar pine type
Calaveras Big Trees		Mountain and western pine beetles

LIST OF CAMPS FROM WHICH SUMMER CONTROL SURVEYS WILL BE CONDUCTED

Name of Camp	Designation	Insect Control Foreman or Spotter
Hackamore	F--3 Modoc N.F.	
White Horse	F--5 "	
Big Springs	F-17 Shasta	
Hall's Flat	F-49 Lassen	
Crocker	F-57 Plumas	
Meadow View	F-61 "	
Boulder Creek	F-60 "	
Sattley	F-67 Tahoe	
Buck Meadow	F-82 Stanislaus	
Mokelumne	F-88 "	
Jawbone	F-84 "	
Carl Inn	F-81 "	
Camp 17	F-86 "	
Sugar Pine	F-91 Sierra	
Wawona #1 and #2	Yosemite NP	
Yosemite #3	"	